

Figure 1:

Nucleotide and Deduced Amino Acid Sequence of Human VR2

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5  CACGAGGCCGACGCGCAGCTGGGAGGAAGACAGGACCCTTGACATCTCCATCTGCACAGA
   GGTCTGGCTGGACCGAGCAGCCTCCTCCTCTAGGATGACCTCACCTCCAGCTCTCCA
                                   M T S P S S S P
10  GTTTTCAGGTTGGAGACATTAGATGGAGGCCAAGAAGATGGCTCTGAGGCGGACAGAGGA
   V F R L E T L D G G Q E D G S E A D R G
   AAGCTGGATTTTGGGAGCGGGCTGCCTCCCATGGAGTCACAGTTCCAGGGCGAGGACCGG
15  K L D F G S G L P P M E S Q F Q G E D R
   AAATTCGCCCCCTCAGATAAGAGTCAACCTCAACTACCGAAAGGGAACAGGTGCCAGTCAG
   K F A P Q I R V N L N Y R K G T G A S Q
20  CCGGATCCAAACCGATTGACCGAGATCGGCTCTTCAATGCGGTCTCCCGGGGTGTCCCC
   P D P N R F D R D R L F N A V S R G V P
   GAGGATCTGGCTGGACTTCCAGAGTACCTGAGCAAGACCAGCAAGTACCTCACCGACTCG
   E D L A G L P E Y L S K T S K Y L T D S
25  GAATACACAGAGGGCTCCACAGGTAAGACGTGCCTGATGAAGGCTGTGCTGAACCTTAAG
   E Y T E G S T G K T C L M K A V L N L K
   GACGGAGTCAATGCCTGCATTCTGCCACTGCTGCAGATCGACAGGGACTCTGGCAATCCT
30  D G V N A C I L P L L Q I D R D S G N P
   CAGCCCCTGGTAAATGCCAGTGACAGATGACTATTACCGAGGCCACAGCGCTCTGCAC
   Q P L V N A Q C T D D Y Y R G H S A L H
   ATCGCCATTGAGAAGAGGAGTCTGCAGTGTGTGAAGCTCCTGGTGGAGAATGGGGCCAAT
35  I A I E K R S L Q C V K L L V E N G A N
   GTGCATGCCCCGGGCTGCGGCCGCTTCTTCCAGAAGGGCCAAGGGACTTGCTTTTATTTTC
   V H A R A C G R F F Q K G Q G T C F Y F
40  GGTGAGCTACCCCTCTCTTTGGCCGCTTGACCAAGCAGTGGGATGTGGTAAGCTACCTC
   G E L P L S L A A C T K Q W D V V S Y L
   CTGGAGAACCCACACCAGCCCGCCAGCCTGCAGGCCACTGACTCCCAGGGCAACACAGTC
45  L E N P H Q P A S L Q A T D S Q G N T V
   CTGCATGCCCTAGTGATGATCTCGGACAACTCAGCTGAGAACATTGCACTGGTGACCAGC
   L H A L V M I S D N S A E N I A L V T S
50  ATGTATGATGGGCTCCTCCAAGCTGGGGCCCGCCTCTGCCCTACCGTGCAGCTTGAGGAC
   M Y D G L L Q A G A R L C P T V Q L E D
   ATCCGCAACCTGCAGGATCTCACGCCTCTGAAGCTGGCCGCCAAGGAGGGCAAGATCGAG
   I R N L Q D L T P L K L A A K E G K I E
55  ATTTTCAGGCACATCCTGCAGCGGGAGTTTTTCAGGACTGAGCCACCTTTCCCGAAAGTTC

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I F R H I L Q R E F S G L S H L S R K F
ACCGAGTGGTGCTATGGGCCTGTCCGGGTGTCGCTGTATGACCTGGCTTCTGTGGACAGC
5 T E W C Y G P V R V S L Y D L A S V D S
TGTGAGGAGAACTCAGTGCTGGAGATCATTGCCTTTTCATTGCAAGAGCCCGCACCGACAC
C E E N S V L E I I A F H C K S P H R H
CGAATGGTCGTTTTGGAGCCCCTGAACAACTGCTGCAGGCGAAATGGGATCTGCTCATC
10 R M V V L E P L N K L L Q A K W D L L I
CCCAAGTTCTTCTTAACTTCCTGTGTAATCTGATCTACATGTTTCATCTTCACCGCTGTT
P K F F L N F L C N L I Y M F I F T A V
GCCTACCATCAGCCTACCCTGAAGAAGCAGGCCGCCCTCACCTGAAAGCGGAGGTTGGA
15 A Y H Q P T L K K Q A A P H L K A E V G
AACTCCATGCTGCTGACGGGGCCACATCCTTATCCTGCTAGGGGGGATCTACCTCCTCGTG
20 N S M L L T G H I L I L L G G I Y L L V
GGCCAGCTGTGGTACTTCTGGCGGCGCCACGTGTTTCATCTGGATCTCGTTCATAGACAGC
G Q L W Y F W R R H V F I W I S F I D S
TACTTTGAAATCCTCTTCCTGTTCCAGGCCCTGCTCACAGTGGTGTCCCAGGTGCTGTGT
25 Y F E I L F L F Q A L L T V V S Q V L C
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F L A I E W Y L P L L V S A L V L G W L
AACCTGCTTTACTATACACGTGGCTTCCAGCACACAGGCATCTACAGTGTCATGATCCAG
30 N L L Y Y T R G F Q H T G I Y S V M I Q
AAGGTCATCCTGCGGGACCTGCTGCGCTTCCTTCTGATCTACTTAGTCTTCCTTTTCGGC
35 K V I L R D L L R F L L I Y L V F L F G
TTCGCTGTAGCCCTGGTGAGCCTGAGCCAGGAGGCTTGGCGCCCCGAAGCTCCTACAGGC
F A V A L V S L S Q E A W R P E A P T G
CCCAATGCCACAGAGTCAGTGCAGCCCATGGAGGGACAGGAGGACGAGGGCAACGGGGCC
40 P N A T E S V Q P M E G Q E D E G N G A
CAGTACAGGGGTATCCTGGAAGCCTCCTTGAGCTCTTCAAATTCACCATCGGCATGGGC
Q Y R G I L E A S L E L F K F T I G M G
GAGCTGGCCTTCCAGGAGCAGCTGCACTTCCGCGGCATGGTGCTGCTGCTGCTGCTGGCC
45 E L A F Q E Q L H F R G M V L L L L L A
TACGTGCTGCTCACCTACATCCTGCTGCTCAACATGCTCATCGCCCTCATGAGCGAGACC
50 Y V L L T Y I L L L N M L I A L M S E T
GTCAACAGTGTCGCCACTGACAGCTGGAGCATCTGGAAGCTGCAGAAAGCCATCTCTGTC
V N S V A T D S W S I W K L Q K A I S V
CTGGAGATGGAGAATGGCTATTGGTGGTGCAGGAAGAAGCAGCGGGCAGGTGTGATGCTG
55 L E M E N G Y W W C R K K Q R A G V M L
ACCGTTGGCACTAAGCCAGATGGCAGCCCGGATGAGCGCTGGTGCTTCAGGGTGGAGGAG
T V G T K P D G S P D E R W C F R V E E

GTGAACTGGGCTTCATGGGAGCAGACGCTGCCTACGCTGTGTGAGGACCCGTCAGGGGCA
V N W A S W E Q T L P T L C E D P S G A

5 GGTGTCCCTCGAACTCTCGAGAACCCTGTCCTGGCTTCCCCTCCCAAGGAGGATGAGGAT
G V P R T L E N P V L A S P P K E D E D

GGTGCCTCTGAGGAAAACCTATGTGCCCGTCCAGCTCCTCCAGTCCAACTGATGGCCCAGA
G A S E E N Y V P V Q L L Q S N *

10 TGCAGCAGGAGGCCAGAGGACAGAGCAGAGGATCTTTCCAACCACATCTGCTGGCTCTGG
GGTCCCAGT

Figure 2

Effect of Elevated Temperature on *Xenopus* Oocytes
Expressing the Human VR-L Receptor

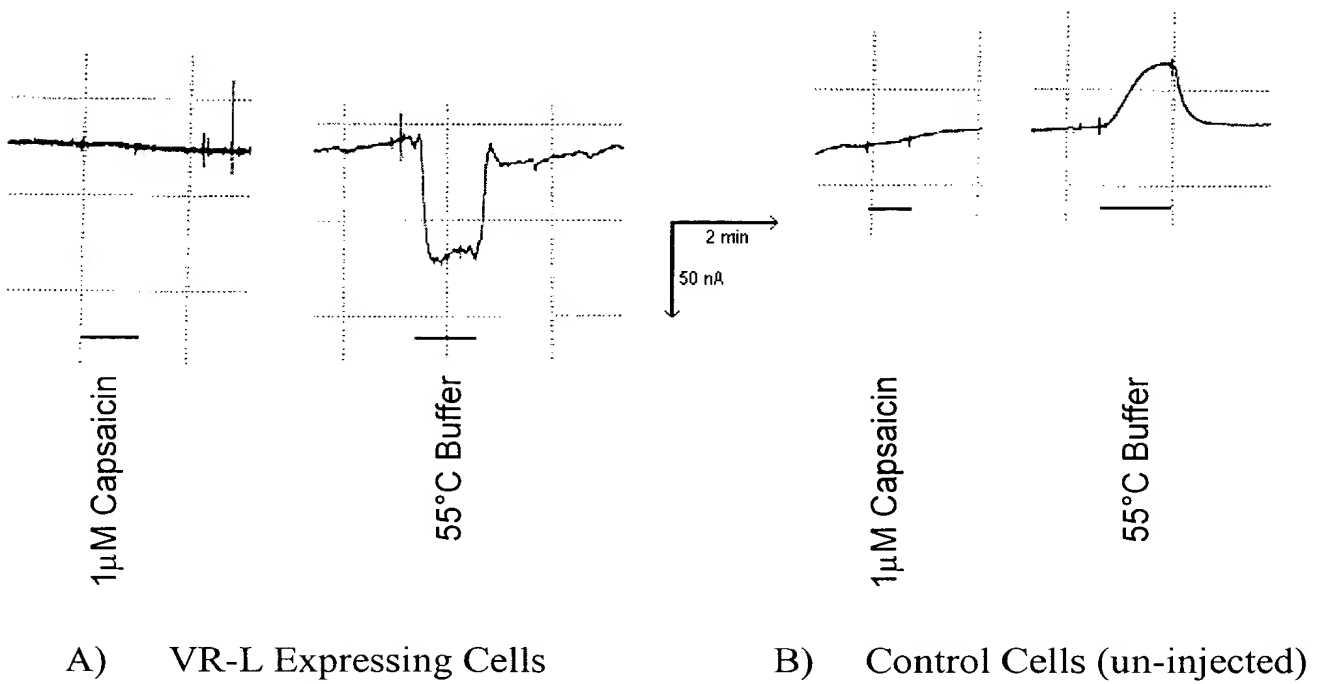


Figure 3:

	104F	CAG	GCC	CGG	GCA	TGC	ACA	TTG
	105T	CCA	GGG	CGA	GGA	CCG	GAA	ATT
5	108F	GAC	AGC	TGG	AGC	ATC	TGG	AAG
	109F	GAC	AGC	TGG	AGC	ATC	TGG	AAG
	110T	CTT	CCA	GAT	GCT	CCA	GCT	GTC
	111T	TTT	GCC	ACC	AGA	ATT	CAC	TGG
	114F	CTC	TCT	TTG	GCC	GCT	TGC	ACC
10	115T	CCA	GCA	CTG	AGT	TCT	CCT	CAC
	118F	GCC	CTA	CCG	TGC	AGC	TTG	AGG
	119T	TGC	CCC	ACG	AGG	AGG	TAG	ATC
	120F	ATG	GCG	ATG	TGC	AGA	GCG	CTG
	121T	AGA	GTC	AAC	CTC	AAA	CTA	CCG
15	126F	GAG	CTT	CTC	CCT	GCG	GTC	AAG
	127T	AAG	GCT	GCT	GAA	AAA	GCA	CTG
	189F	GCT	GGG	CTG	GCT	GAA	CCT	GC
	190T	GAG	GGC	AAT	GAG	CAT	GTT	G